# This Page Is Inserted by IFW Operations and is not a part of the Official Record

### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

### IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

COPY OF PAPERS ORIGINALLY FILED



#### DECLARATION FOR PATENT APPLICATION, POWER OF TORNEY & DESIGNATION OF CORRESPONDENCE ADDRESS

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### **ULTRA-FINE ALIGNMENT SYSTEM AND METHOD** USING ACOUSTIC-AFM INTERACTION

the specification of which (check one)

Is attached hereto. Χ

Χ was filed on June 27, 2001 as Application Serial No. 09/892,805

I hereby state that I have reviewed and understand the contents of the aboveidentified specification including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR §1.56(a).

#### PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

I hereby claim foreign priority benefits under 35 USC §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

	Prior Foreign Appl	ication(s)	Priority	Claime
Number	Country	Day/Month/Year Filed	Yes	No

### BEST AVAILABLE COPY

Jas

#### **CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)** (35 U.S.C. § 119())

by claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

		- APERED
Provisional Application Number	Filing Date	OFILYFIN
·····		COLGINAL
		Offin

#### CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) **UNDER 35 U.S.C. 120**

I hereby claim the benefits under 35 USC §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Filing Date	Patented, Pending, Abandoned
	Filing Date

Power of Attorney: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Adel A. Ahmed, Reg. No. 29,606; I. Marc Asperas, Reg. No. 37,274; Stanton C. Braden, Reg. No. 32,556; Alexander J. Burke, Reg. No. 40,425; David D. Chung, Reg. No. 38,409; Dexter K. Chin, Reg. No. 38,842; Joseph S. Codispoti, Reg. No. 31,819; Henry J. Groth, Reg. No. 39,696; Tracy Lynn Hurt, Reg. No. 34,188; Mark H. Jay, Reg. No. 27,507; Brian K. Johnson, Reg. No. 46,808; Stuart P. Kaler, Reg. No. 35,913; Rosa S. Kim, Reg. No. 39,728; Peter A. Luccarelli, Jr., Reg. No. 29,750; James M. Markarian, Reg. No. 31,277; Jeffrey P. Morris, Reg. No. 25,307; Pasquale Musacchio, Reg. No. 36,876; John P. Musone, Reg. No. 44,961; Frank J. Nuzzi, Reg. No. 42,944; Donald B. Paschburg, Reg. No. 33,753; Benjamin M. Rubin, Reg. No. 44,310; Laura M. Slenzak, Reg. No. 35,363; Daniel J. Staudt, Reg. No. 34,733; Erik C. Swanson, Reg. No. 40,194; Heather S. Vance, Req. No. 39,033; and Michael J. Wallace, Jr., Reg. No. 44,486, FRANK CHAU, Req. No. 34,136; FRANK V. DeROSA, Reg. No. 43,584; GASPARE J. RANDAZZO, Reg. No. 41,528; SUSAN PAIK, Reg. No. 46,347; JUAN C. VILLAR, Reg. No. 34,271 and NATHANIEL T. WALLACE, Reg. No. 48,909.

#### Send Correspond nce to:

F. Chau & Associates, LLP 1900 Hempstead Turnpike, Suite 501 East Meadow, NY 11554 Tel. No. (516) 357-0091 Fax No. (516) 357-0092

Full Name of First Inventor: Brian Lee

I hereby declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under 18 USC §1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Inventor's Signature:	Date:
Residence: New York, New York 10021	
Citizenship: Korea	
Post Office Address: 425 E. 76th Street, #10D, New York, No	ew York 10021
Full Name of Second Inventor: Gary Williams	
Inventor's Signature:	Date:
Residence: Fishkill, New York 12524	
Citizenship: Great Britain	
Post Office Address: 23 Laurel Court, Fishkill, NY 12524	
Full Name of Third Inventor: Zhijian Lu	
Inventor's Signature:	Date:
Residence: Poughkeepsie, NY 12603	
Citizenship: China	
Post Office Address: 510 Maloney Road, Apt. 25G, Poughke	epsie, NY 12603

Atty. Dkt. No. Serial No. 09/892,805

Atty. Dkt. No. 1 P 11064 US (8055-59)

Full Name of Fourth Invent	or: Graham Ballantyne	
Inventor's Signature:	Con Ayan	Date: 10 4 01
Residence: Northumberla	nd, United Kingdom	
Citizenship: Great Brita	in	
Post Office Address: 6 Elm	n Close, Cramlington, Livingsto	on,
NE23	3 6HY Northumberland, United	Kingdom



#### **DECLARATION FOR PATENT APPLICATION, POWER OF** ATTORNEY & DESIGNATION OF CORRESPONDENCE ADDRESS

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention CORIGINAL TEN entitled:

#### **ULTRA-FINE ALIGNMENT SYSTEM AND METHOD USING ACOUSTIC-AFM INTERACTION**

the specification of which (check on	the	specification	of	which	(check	one
--------------------------------------	-----	---------------	----	-------	--------	-----

<u>X</u>	Is attached hereto.	
X	was filed on June 27, 2001	as Application Serial No. 09/892,805

I hereby state that I have reviewed and understand the contents of the aboveidentified specification including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR §1.56(a).

#### PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

I hereby claim foreign priority benefits under 35 USC §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

	Prior Foreign Appl	ication(s)	Priority (	Claime
Number	Country	Day/Month/Year Filed	Yes	No
	·			

# CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date

### CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim the benefits under 35 USC §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Appl. No. Filing Date		Patented, Pending, Abandoned		

<u>Power of Attorney</u>: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Adel A. Ahmed, Reg. No. 29,606; I. Marc Asperas, Reg. No. 37,274; Stanton C. Braden, Reg. No. 32,556; Alexander J. Burke, Reg. No. 40,425; David D. Chung, Reg. No. 38,409; Dexter K. Chin, Reg. No. 38,842; Joseph S. Codispoti, Reg. No. 31,819; Henry J. Groth, Reg. No. 39,696; Tracy Lynn Hurt, Reg. No. 34,188; Mark H. Jay, Req. No. 27,507; Brian K. Johnson, Reg. No. 46,808; Stuart P. Kaler, Req. No. 35,913; Rosa S. Kim, Reg. No. 39,728; Peter A. Luccarelli, Jr., Reg. No. 29,750; James M. Markarian, Reg. No. 31,277; Jeffrey P. Morris, No. 25,307; Pasquale Musacchio, Reg. No. 36,876; John P. Musone, Reg. No. 44,961; Frank J. Nuzzi, Reg. No. 42,944; Donald B. Paschburg, Reg. No. 33,753; Benjamin M. Rubin, Reg. No. 44,310; Laura M. Slenzak, Reg. No. 35,363; Daniel J. Staudt, Reg. No. 34,733; Erik C. Swanson, Reg. No. 40,194; Heather S. Vance, Reg. No. 39,033; and Michael J. Wallace, Jr., Reg. No. 44,486, FRANK CHAU, Req. No. 34,136; FRANK V. DeROSA, Reg. No. 43,584; GASPARE J. RANDAZZO, Reg. No. 41,528; SUSAN PAIK, Reg. No. 46,347; JUAN C. VILLAR, Reg. No. 34,271 and NATHANIEL T. WALLACE, Reg. No. 48,909.

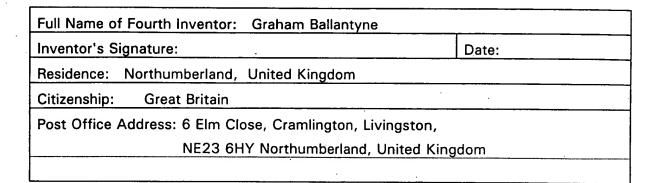
#### Send Correspondence to:

F. Chau & Associates, LLP 1900 Hempstead Turnpike, Suite 501 East Meadow, NY 11554 Tel. No. (516) 357-0091 Fax No. (516) 357-0092

Full Name of First Inventor: Brian Lee

I hereby declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under 18 USC §1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Inventor's Signature:		Date: 10/01
Residence: New York, New York 1	0021	
Citizenship: Korea		,
Post Office Address: 425 E. 76th St	treet, #10D, New York, No	ew York 10021
	,	
Full Name of Second Inventor: Gar	y Williams	
Inventor's Signature:		Date:
Residence: Fishkill, New York 125	524	
Citizenship: Great Britain		
Post Office Address: 23 Laurel Cou	rt, Fishkill, NY 12524	
Full Name of Third Inventor: Zhijia	ın Lu	
Inventor's Signature:		Date:
Residence: Poughkeepsie, NY 12	603	
Citizenship: China	* * * * * * * * * * * * * * * * * * * *	
Post Office Address: 510 Maloney	Road, Apt. 25G, Poughke	epsie, NY 12603





#### **DECLARATION FOR PATENT APPLICATION, POWER OF** ATTORNEY & DESIGNATION OF CORRESPONDENCE ADDRESS

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### **ULTRA-FINE ALIGNMENT SYSTEM AND METHOD USING ACOUSTIC-AFM INTERACTION**

the specification	of	which	(check	one)
-------------------	----	-------	--------	------

Is attached hereto.

Х was filed on June 27, 2001 as Application Serial No. 09/892,805

I hereby state that I have reviewed and understand the contents of the aboveidentified specification including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR §1.56(a).

#### PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

I hereby claim foreign priority benefits under 35 USC §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)		Priority Claimed		
Number	Country	Day/Month/Year Filed	Yes	No

# BEST AVAILABLE COPY

## CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
·	

## CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim the benefits under 35 USC §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Appl. No.	Filing Date	Patented, Pending, Abandoned	
		***	

<u>Power of Attorney</u>: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Adel A. Ahmed, Reg. No. 29,606; I. Marc Asperas, Reg. No. 37,274; Stanton C. Braden, Req. No. 32,556; Alexander J. Burke, Req. No. 40,425; David D. Chung, Reg. No. 38,409; Dexter K. Chin, Reg. No. 38,842; Joseph S. Codispoti, Reg. No. 31,819; Henry J. Groth, Reg. No. 39,696; Tracy Lynn Hurt, Reg. No. 34,188; Mark H. Jay, Reg. No. 27,507; Brian K. Johnson, Reg. No. 46,808; Stuart P. Kaler, Reg. No. 35,913; Rosa S. Kim, Reg. No. 39,728; Peter A. Luccarelli, Jr., Reg. No. 29,750; James M. Markarian, Reg. No. 31,277; Jeffrey P. Morris, No. 25,307; Pasquale Musacchio, Reg. No. 36,876; John P. Musone, Req. No. 44,961; Frank J. Nuzzi, Reg. No. 42,944; Donald B. Paschburg, Reg. No. 33,753; Benjamin M. Rubin, Reg. No. 44,310; Laura M. Slenzak, Reg. No. 35,363; Daniel J. Staudt, Reg. No. 34,733; Erik C. Swanson, Reg. No. 40,194; Heather S. Vance, Req. No. 39,033; and Michael J. Wallace, Jr., Reg. No. 44,486, FRANK CHAU, Reg. No. 34,136; FRANK V. DeROSA, Reg. No. 43,584; GASPARE J. RANDAZZO, Reg. No. 41,528; SUSAN PAIK, Reg. No. 46,347; JUAN C. VILLAR, Req. No. 34,271 and NATHANIEL T. WALLACE, Reg. No. 48,909.

#### Send Correspondence to:

F. Chau & Associates, LLP 1900 Hempstead Turnpike, Suite 501 East Meadow, NY 11554 Tel. No. (516) 357-0091 Fax No. (516) 357-0092

Full Name of First Inventor: Brian Lee

I hereby declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under 18 USC §1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Inventor's Signature:	Date:				
Residence: New York, New York 10021					
Citizenship: Korea					
Post Office Address: 425 E. 76th Street, #10D, New York, New York 10021					
Full Name of Second Inventor: Gary Williams					
Inventor's Signature:	Date: 5/25/5				
Residence: Fishkill, New York 12524					
Citizenship: Great Britain					
Post Office Address: 23 Laurel Court, Fishkill, NY 12524					
Full Name of Third Inventor: Zhijian Lu					
Inventor's Signature:	Date: /:				
Residence: Poughkeepsie, NY 12603					
Citizenship: China					
Post Office Address: 510 Maloney Road, Apt. 25G, Poughkeepsie, NY 12603					

Serial No. 09/892,805 Atty. Dkt. No. 201 P 11064 US (8055-59)

Full Name of Fourth Inventor: Graham Ballantyne				
Inventor's Signature:	Date:			
Residence: Northumberland, United Kingdom				
Citizenship: Great Britain				
Post Office Address: 6 Elm Close, Cramlington, Livingston,				
NE23 6HY Northumberland, United Kingdom				